

CLEAN CLAIMS

1. Metallic material provided with a chromium-oxide passivation film comprising a passivation film consisting of chromium oxide obtained by oxidizing a chromium coat on the metallic material of which surface roughness (Ra) is not more than 1.5 μ m.

2. The metallic material provided with the chromium-oxide passivation film according to claim 1, said film having pin holes wherein pin holes of said chromium-oxide passivation film are filled.

3. A method for manufacturing metallic material on which a chromium-oxide passivation film is formed, comprising the step of:

forming the passivation film consisting of chromium oxide by applying heat treatment in an oxidizing atmosphere after coating chromium on the metallic material of the surface roughness (Ra) of metallic material surface is not more than 1.5 μ m.

4. A fluid supplying/exhaust system for manufacturing semiconductors, comprising metallic material having a chromium-oxide passivation film according to claim 1.